

Title (en)

NON LINEAR DAMPING SYSTEM COMPRISING LEAF SPRINGS FOR A ROCKET ENGINE

Title (de)

NICHT-LINEARES DÄMPFUNGSSYSTEM UMFASSEND BLATTFEDERN FÜR EINEN RAKETENANTRIEB

Title (fr)

SYSTÈME D'AMORTISSEMENT NON LINÉAIRE PAR LAMELLE POUR MOTEUR DE LANCEUR SPATIAL

Publication

EP 3973172 B1 20230809 (FR)

Application

EP 20737252 A 20200519

Priority

- FR 1905294 A 20190521
- FR 2020050831 W 20200519

Abstract (en)

[origin: WO2020234540A1] Space launcher comprising a launcher body (1), an engine (2), a combustion chamber (4), a nozzle (5) having a main axis (Z-Z), the nozzle (5) being provided with a plate (6) extending radially, the plate (6) having an inner face and an outer face positioned respectively in the internal volume and in the external environment, characterized in that it additionally comprises a plurality of damping elements (7) positioned on the inner face of the plate (6), each damping element (7) comprising a leaf spring (71) parallel to the inner face of the plate (6).

IPC 8 full level

F02K 9/97 (2006.01); **B64G 1/40** (2006.01); **F02K 9/60** (2006.01); **F02K 9/84** (2006.01); **F16F 1/18** (2006.01); **F16F 15/073** (2006.01)

CPC (source: EP)

F02K 9/84 (2013.01); **F02K 9/97** (2013.01); **F16F 15/073** (2013.01); **F05D 2260/96** (2013.01); **F16F 1/18** (2013.01); **F16F 2236/027** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020234540 A1 20201126; EP 3973172 A1 20220330; EP 3973172 B1 20230809; FR 3096423 A1 20201127; FR 3096423 B1 20210604

DOCDB simple family (application)

FR 2020050831 W 20200519; EP 20737252 A 20200519; FR 1905294 A 20190521